



Gianelli Station Construction

Logistics of the Site and Shelter



Site 6 Considerations

Type of: shelter, power, security,
intake, access, QA/QC.



Close.



Closer.



Close to the main SLFD road



Access to electricity from last security gate.



Razor-wire/chain-link fence



Next to harvester/boat ramp



Plenty of parking (equipment).
Patrolled by roving security guard.



COMMUNICATIONS SHELTER

STANDARD FEATURES:

- C - Channel Skid
- Vertical Siding
- Stucco or Wood Grain
- Membrane Roof System
- Fully Insulated
- Choice of Colors
- FRP Interior
- Pre-wired
- Slab or Piers

OPTIONAL FEATURES:

- Bullet Resistance
- Fire Rated
- Custom Sizes
- Telco Options
- Higher Design Loads



STANDARD FIBERCEMENT EXTERIOR

BENEFITS:

- Lightweight
- Resist Mold, Fungus and Mildew
- Resist Fire
- Resist Termites
- Resist Impacts
- Resist Harsh Climates
- Additional Shear Value

APPLICATIONS:

- Rooftops
- Communications
- Process Control
- Gen Set Enclosures
- Industrial
- SCADA



www.shelter1.com

Voice: (541) 479-4622 Fax: (541) 479-5289

Shelter selection process

Options, price, versatility, certification



CEMS SHELTERS



NON-COMBUSTIBLE



ALUMINUM CLADDING



FIBERGLASS CLADDING



REFINERY



CLASSIFIED SHELTER



STEEL CLADDING



TYPE C CEMS



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Variety of structure types

Qty Ea.	Item No.	LineDescription	List	Disc	LineAmount
1	LS0814811	MODEL LS SHELTER, 8'W (OD) X 14'L (OD) X 8'H (ID) C6-channel Skid Base, Galv. Steel Framing, Upgrade To R27 White Frp Inter / Cement Fiber Board Exter, Sirra Tan, Brown Trim White Duro-last Roofing System, Aluminum Daimond Plate Floor	16900.00	25	12675.00
1	DOOR08	Upgrade Door - Insulated Flush Oversized Door (R-7)	315.00	25	236.25
1	BEFE0814	Power Dist In Conduit Incl Lights & Receptacles	1375.00	15	1168.75
1	100A1P20SD	LOAD CENTER, 100 A, 1 PH. 20 POS. NEMA 1, SQD	400.00	10	360.00
1	HVAC2460	HV A C, 24k Btu, W/ Standard T'stat, Disc Sw & GFCI Recept	4130.00	10	3717.00
1	CAMLOCK	Upgrade Std Latch To 3 Point Cam-lock Hardware	215.00	10	193.50
2	BLOCK1220	Floor Blockout For Cable Penetration, 12" X 20", W/ Cover Plate	405.00	10	729.00
4	EXLT3	Light, Exterior, High Press. Sodium, 70 W, 120 V W/ P-cell	335.00	10	1206.00
1	SMOKEHEAT	Smoke & Heat Detector, 120 Vac W/ Output Relay	275.00	10	247.50
1	DSF100A1P3R	Disconnect Switch, Fused 100a, 1ph, 240v, Nema 3r	385.00	10	346.50
1	PHONE1	TELEPHONE SYSTEM, BASIC, DUAL JACK (SA-0071)	225.00	10	202.50
		Professional Engineering & State Review:			
1	PE	Professional Eng / Stamped Drawing & Calculations, California	1800.00	0	1800.00
1	STATE	State Review / State Inspection & Insignia, California	770.00	0	770.00
		Transportation / Offloading By Others:			
1	FREIGHT	Freight Cost To West Sacramento, Ca	975.00	0	975.00

Notes, Terms & Conditions

VALIDITY: 12/31/2011.

FOB: SHIP POINT.

PAYMENT TERMS: N30 FROM SHIP DATE.

Rough Estimated Weight, Empty 5,500 to 6,000 lbs depending on exterior cladding options.

Subtotal \$24,627.00

\$0.00

Unit Cost \$24,627.00

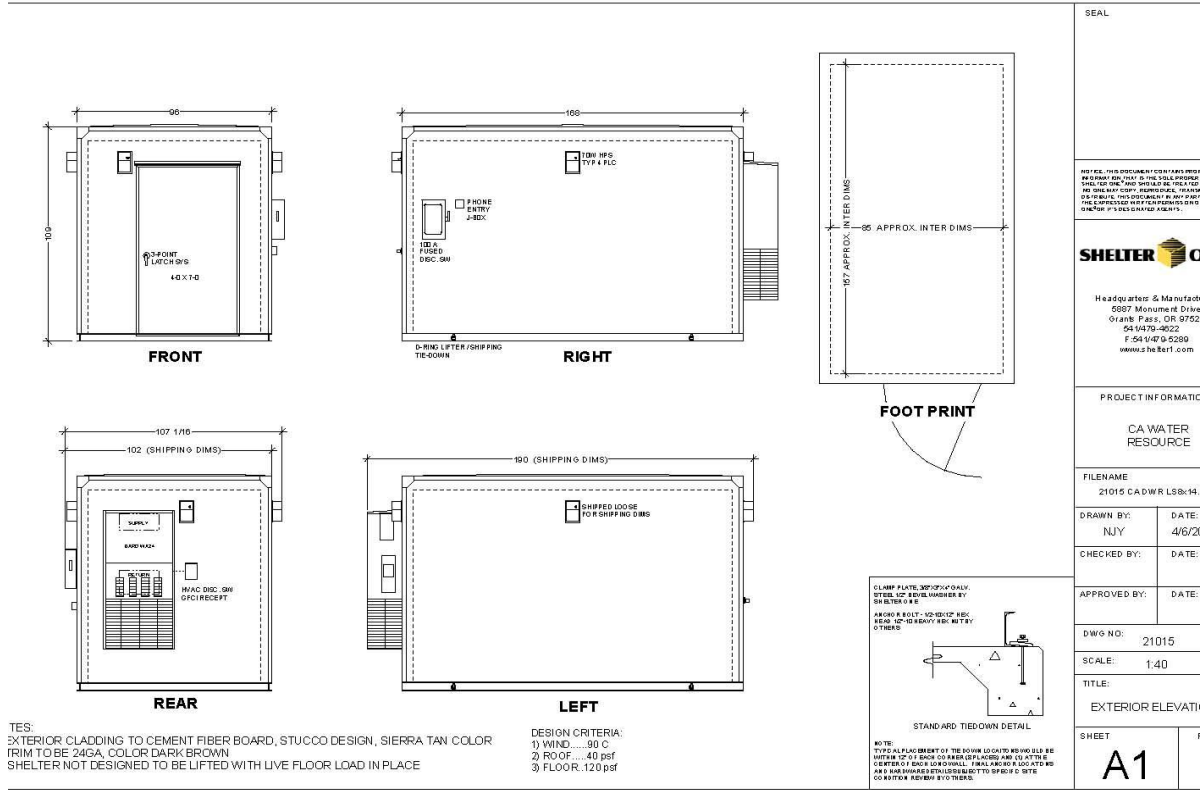
Grand Total \$0.00

Norm Yoder

Norm Yoder

Selecting the options

Insulation, Interior, Exterior, Electrical, HVAC, Color
Roof, Security, Access panels, Certifications



Exterior plans

Project Reference:	CA Water Resources
Project Number:	21015

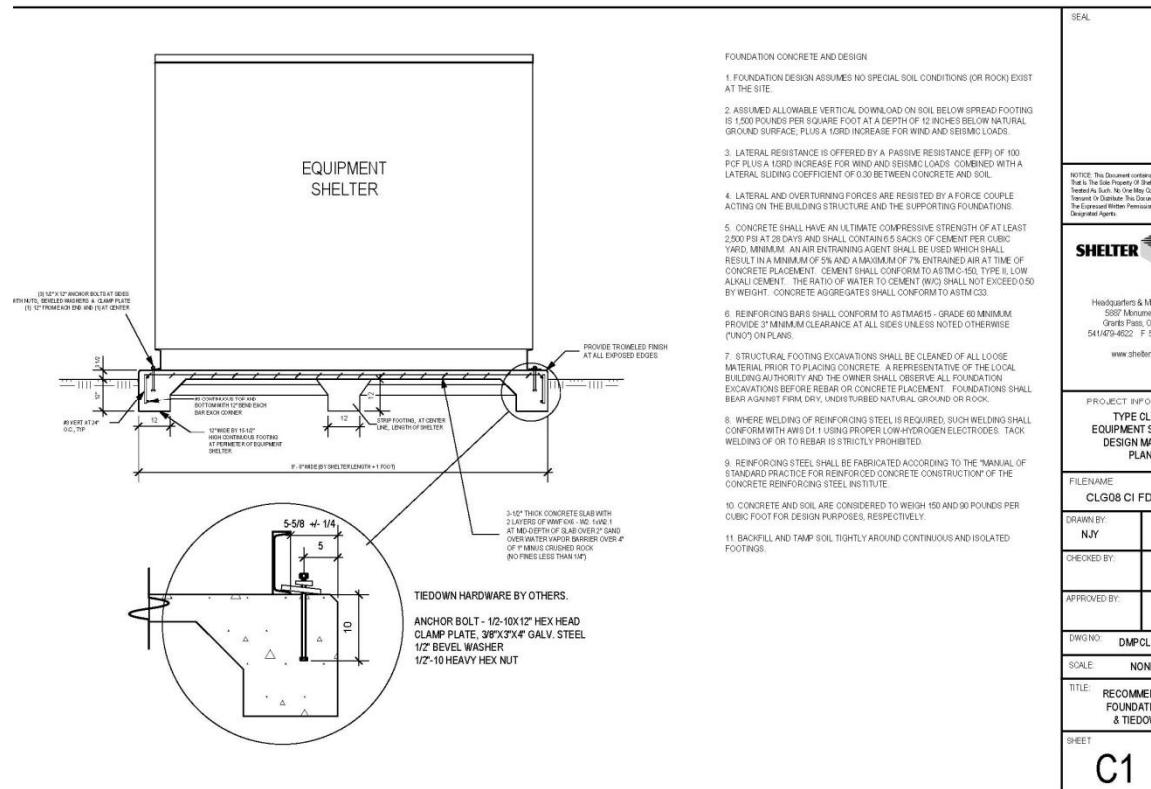
UTILITY POWER BY OTHERS

SERVICE DISCONNECT

					MAIN BRK							
POS	ITEM	QTY	Duration	Amps	100		Amps	Duration	QTY	ITEM	POS	
1	HVAC		100.00%	35	1	1	20	30.00%	4	INT. RECEPT.	2	
3	HVAC		100.00%	35			20	30.00%	4	INT. RECEPT.	4	
5	INT. LIGHTING	192	13.33%	15	1	1	15		1	SMOKE DET	6	
7	Exter Lights	280	19.44%	20			20	7.50%	1	EXT. RECEPT.	8	
9					1	1					10	
11												12
13					1	1					14	
15												16
17					1	1					18	
19												20
21	NA				1	1				NA	22	
23	NA										NA	24
25	NA				1	1				NA	26	
27	NA										NA	28
29	NA				1	1				NA	30	
31	NA										NA	32
33	NA				1	1				NA	34	
35	NA										NA	36
37	NA				1	1				NA	38	
39	NA										NA	40
41	NA				1	1				NA	42	
Sum Phase A							46	Sum Phase B				
							10727	VA				
							44.69	Amps				

Electrical schedule

Valuable info for future expansion



Concrete pad plans

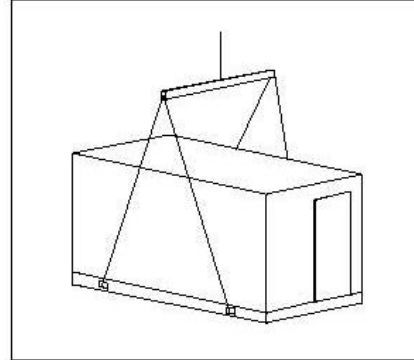
Site specific for seismic and exposure.

Explains anchors and footings.

Shelter Transportation and Loading Information

IMPORTANT

THE FOLLOWING INFORMATION IS PRESENTED AS A SUGGESTION FOR OFFLOADING OF THE SHELTER. HOWEVER, IT REMAINS THE RESPONSIBILITY OF THE ON-SITE PERSONNEL TO ASSURE THAT ALL OPERATIONS ARE SAFE AND CONFORM TO ALL APPLICABLE RULES, LAWS, AND REGULATIONS. SHELTER ONE ASSUMES NO RESPONSIBILITY FOR ANY DIRECT OR CONSEQUENTIAL DAMAGES OR INJURY CAUSED BY THE HANDLING, LOADING, OR OFFLOADING OF ANY SHELTER OR RELATED DEVICE.



Shelters manufactured by Shelter One are made to withstand the dynamic stresses encountered during normal transportation. The following guidelines will assist you in the safe and simple unloading and placement of the shelter.

NOTE: forklift handling is not recommended for use with shelters exceeding 6 feet in length or width. The shelter is best handled by a crane of sufficient lift capacity and boom extension to reach the desired final installation site.

The approximate empty weight of the shelter is noted on the data plate to be found near the personnel door. Take into account that typically shelters are not designed to be lifted and transported with any equipment that has been installed subsequent to leaving the factory.

The shelter is equipped with at least two combination lift/tiedown fixtures on each side.

The crane operator or rigger should be able to provide the necessary equipment for safe handling of the shelter. We recommend use of 20 foot long, 20,000 pound rated nylon straps connected to each tiedown. A spreader bar is recommended on shelters longer

Easy to transport, easy to place

DWR has the right equipment...



Sometimes we improvise.



Location, Location, Location
Bryte Yard and the Cal-Card.



Home at last.

Easier to install equipment here
at the Bryte Yard.



Road worthy

At 8', narrow enough for the highway.
No "WIDE LOAD" signs; use our truck.



Facing the Gianelli P-G Plant.



Galvanized steel framing.

Ours is R-27 foam with radiant barrier.



Fiber-cement exterior panels.
30 year warranty. 20 year for trim.



Security lights, on all 4 sides.
Photo-eye 70W HP sodium.



External service disconnect.
Comm. Box, for phone and camera.



Duralast brand roof.

Vinyl membrane and mesh.



15 year warranty.

¼" per foot slope to keep water from pooling.



R-7 insulated 4 x 7' door.

All stainless steel framing, trim, hinges, and lock mechanisms.



“Triple-lock” mechanism.

Inside safety handle.

Locks open too.



Replaceable tumbler.



D-rings for slings.

\$2-4000 to buy apparatus.



26 gauge galvanized sheeting.
Prevents rodent infestation.



12" x 20" floor knockout plate.

Allows for conduit, with plenty of "wiggle room".



24,000 BTU HVAC unit.

5-10 year warranty.

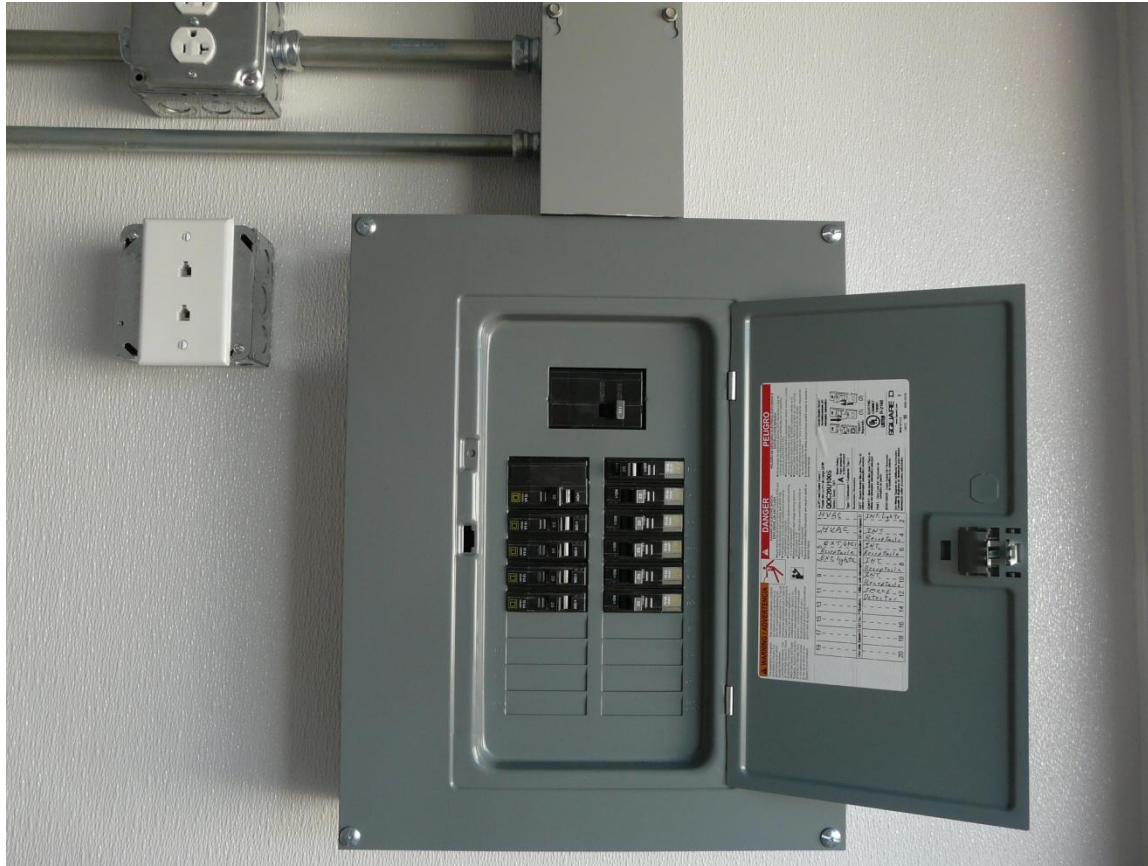


Diamond plate aluminum floor.
7/8" OSB T-G, 120psf.



Fiberglass reinforced panel.

7/16" OSB with steel studs.



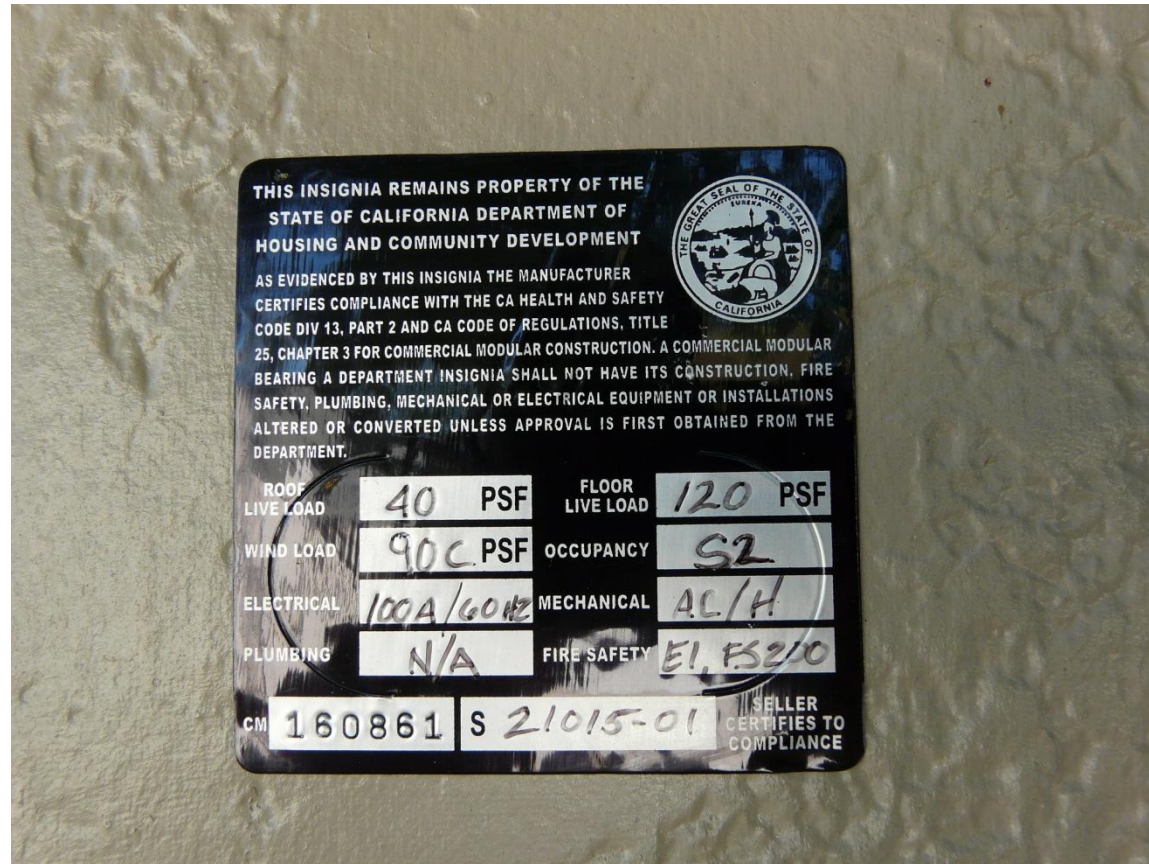
Electrical load center.



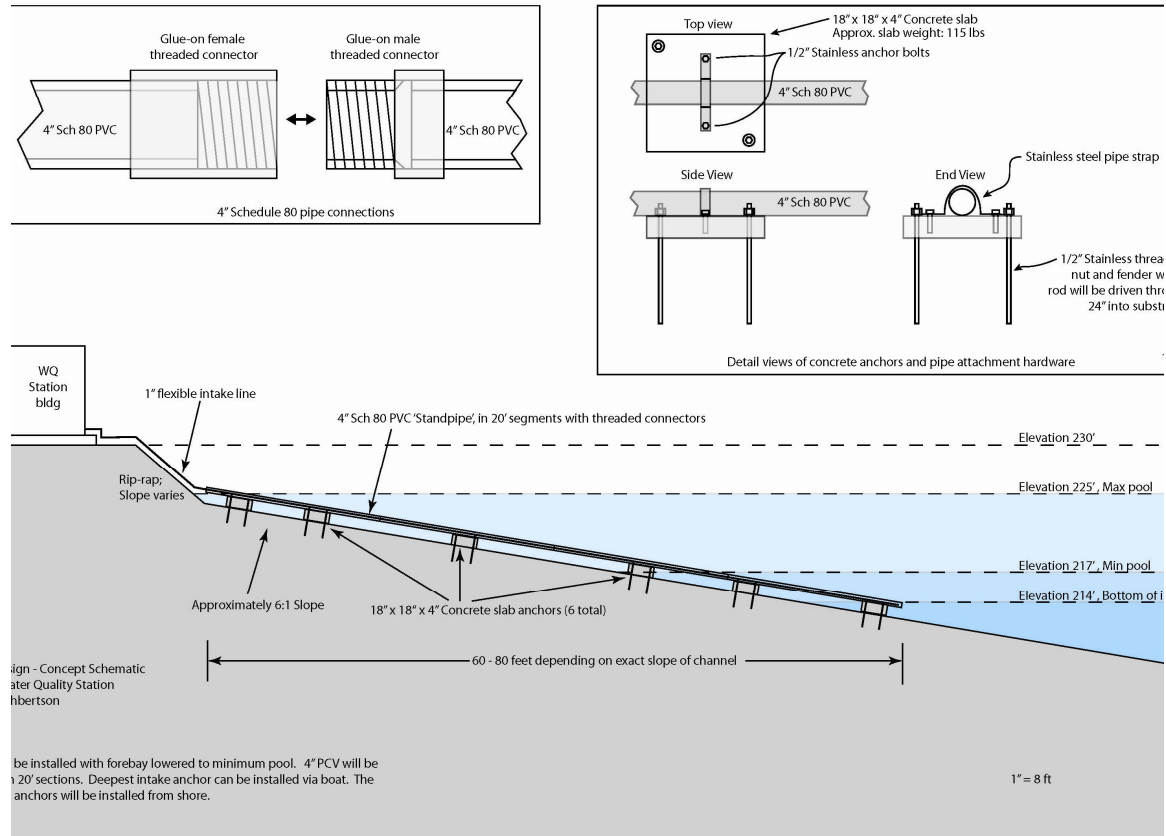
Specifications.



More specs., including weight.



California Housing Insignia.



Intake Construction

Conduit for 1.5" suction line with strainer and check valves.



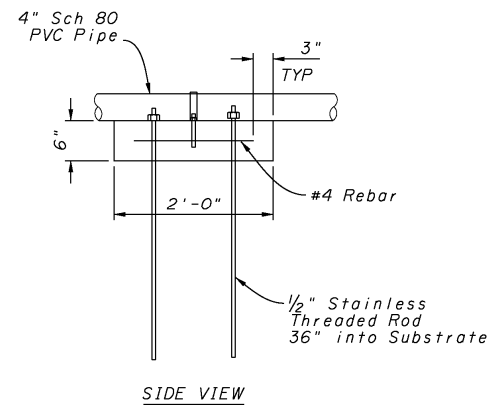
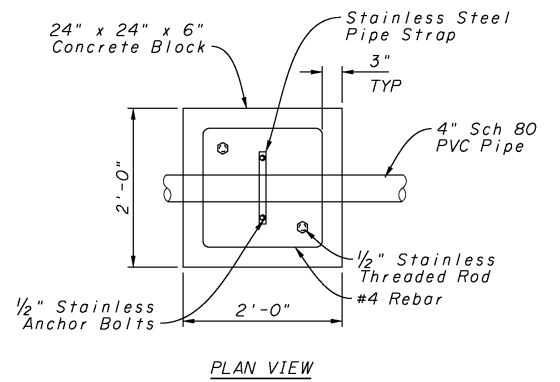
Approximate location.

Good staging area for divers, and us.



Site 7 pilings for conduit.

Not available, we get to make our own.



300 lb. concrete block.

All SS hardware.

Placed every 8'.



Access to the Soils Lab.



Fog room for curing.



Sweet ride.



All-purpose student.

Cutting #4 rebar for anchors.



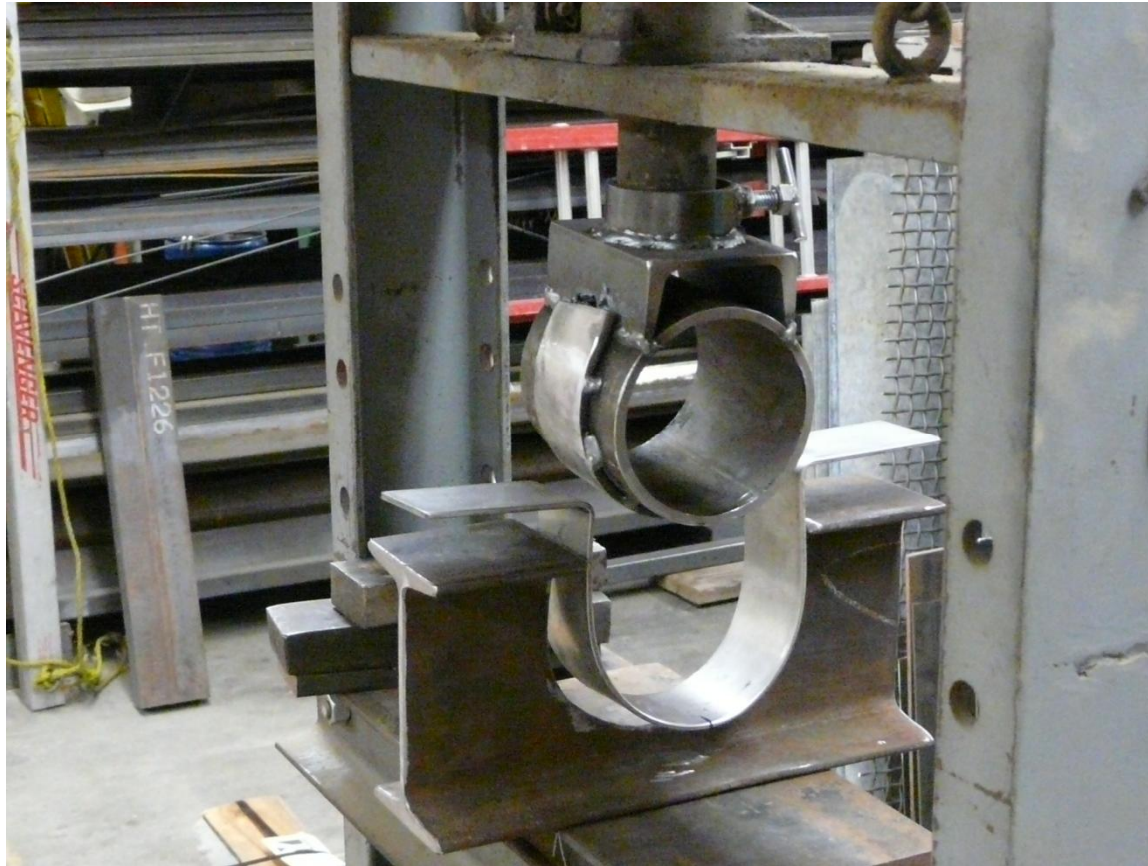
All-purpose scientists.

Cutting all the SS for the fabrication shop.

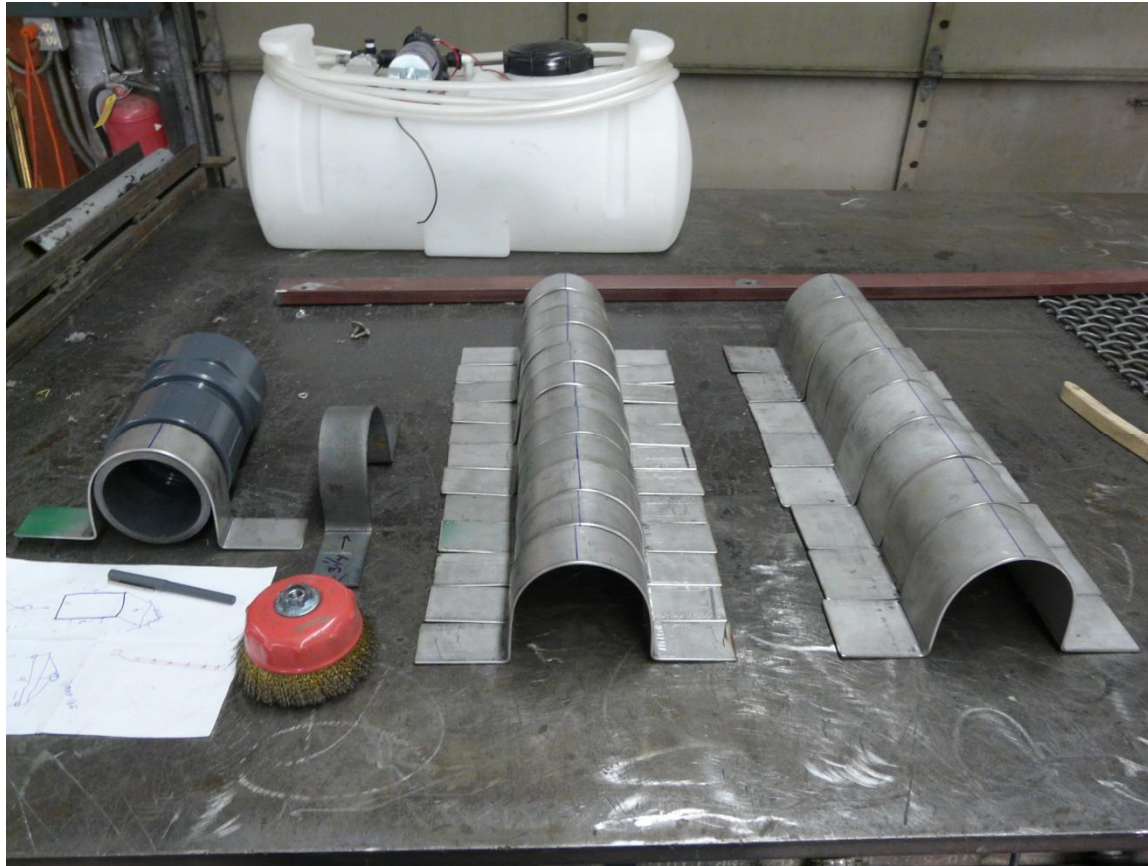


Bryte Maintenance Yard.

Greg Ahlers, the new fabricator.



Custom tools for custom work.
Build what you don't have.



Completed pipe clamps.

1/8" x 2" & 3" stainless steel strap.



Schedule 80 4" conduit.



Harbor Offshore, Inc. Marine Contractors

Contact: Phil Otalora
5720 Nicolle Street, Ventura CA 93003
(805) 639-2205 Fax: (805) 639-2207
Visit our website at: www.HarborOffshoreInc.com

Harbor Offshore, Inc. is contracted with the Department of Water Resources (Agreement #4600008232) to provide diving services to the DWR and its regional offices in support of the state aqueduct system. We have recently completed an acoustic velocity meters servicing at San Luis Canal and a bypass valves servicing at Lake Silverwood.

As an experienced diving contractor based in California, we encourage the use of this contract vehicle to maintain and repair our state aqueduct system. Please feel free to contact Mr. Brian E. DePuy, Acting Chief, Construction Office, at the DWR for more information. (916) 653-8145. E-mail bedepuy@water.ca.gov.

Certifications:

- An 8(a) company (SBA designation)
- CA Disadvantaged Business Enterprise DBE (Firm # 29285)
- CA Minority Business Enterprise MBE (Firm # 29285)



Our services include:

- Surface supplied diving (air, nitrox, bell bounce & saturation)
- Remote operated vehicles (ROVs) and 1-arm systems
- Underwater surveys
- Above & underwater construction
- Engineering design & placement of structures
- Dive support vessels (DSVs) & operations
- Demolition & salvage
- Surveying & data collection
- Cable & array installations



Dive contract in place.
May expedite intake install.
Possible MWQI Field Unit install.

After the intake is complete...

Installs on the “water” side:

- ” Sink
- ” Pump
- ” Filters
- ” Sievers TOC
- ” Stream splitter for DOC
- ” Multi-parameter sonde
- ” Delivery tubing
- ” Drain lines
- ” DI system

Installs on the “power” side:

- ” PC controller
- ” Communications
- ” Desk/bench
- ” Safety gear: life-line, signals, first aid, fire extinguisher
- ” Supplies cabinet
- ” Tools and maintenance gear.
- ” Future expansion???



Plumbing & analyzer side.



Communication and electrical.

“Thank you, Thank you very much”

O&M Staff

- ” Aaron Cuthbertson
- ” Pam Borba
- ” Bob Mattos
- ” Larry Carmo
- ” Mandeep Bling
- ” Rob Dunlop
- ” Alicia Luna
- ” The students

Bryte Yard

- ” Phil Carey
- ” Mike Salvador
- ” Greg Ahlers
- ” The Soils Lab
- ” The Chem Lab

- ” But most of all...



The MWQI Field Unit!



**The future of the Field Unit
and the Real-Time stations.**



Goin' mobile.



L æm hangin'.





Any Size.



20 FT EQUIPMENT SHELTER



AGGREGATE PANEL / STANDING SEAM ROOF



AGGREGATE





Roof platform with roof hatch, guardrail, non-slip walkway and toe kick.



SHELTER ONE

SOLAR SHELTER



- REMOTE
- CUSTOM
- GALVANIZED
- ENGINEERED



FEATURES AND BENEFITS:

- Custom Designs
- Welded Steel Frame Construction
- Light Weight
- Field Installed
- Corrosion Resistant



REMOTE APPLICATIONS:

- Communications
- Navigation
- Air Quality
- Meteorological
- Repeaters
- Radios

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OFF THE GRID?